

Udit Jain

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SUMMARY

Results-driven Software Engineer with hands-on experience in full-stack development and AI automation using Java, Spring Boot, ReactJS, and LangChain. Strong foundation in data structures, algorithms, and system design, with a passion for building scalable, high-impact solutions

PROFESSIONAL EXPERIENCE

- Intel Corporation - Bengaluru, Software Engineer Intern

Jul 2025 - Present

 - Engineered and integrated **CSV export functionality** into Material UI tables within Intel's analytics platform (*PRISM*), boosting data accessibility and cutting manual reporting time by **40%**.
 - Optimized **ReactJS-MUI integration** to enable downloadable, filterable, and paginated dashboards across **3+ internal teams**, improving representation.
 - Developed and executed end-to-end UI tests using Cypress**, automating test case generation and consistency workflows to ensure high product reliability and reduce manual QA effort by **~30%**.
- CISCO Systems - Bengaluru, Software Engineer Intern

May 2025 - Jul 2025

 - Constructed an **AI-driven automation system** using **LangChain and LLMs** to automate software patch deployment, simulation, and report generation for router hardware systems, reducing manual intervention by **70%**.
 - Created a scalable **Webex chatbot** integrated with **four intelligent agents** for Jenkins execution, patch loading, and log analysis, accelerating regression testing and decreasing debugging time by **38%**.
 - Applied **multithreading** to create **parallel agent instances**, enabling concurrent automation tasks and refining overall system throughput by **25%**.
 - Configured **modular scripts** for **CI/CD integration** and made autonomous result tracking, ensuring real-time visibility of execution status and reports.
- Centre for Development of Telematics (C-DOT) - Delhi, Software Engineer

Jan 2023 - Jul 2024

 - Led **end-to-end development** of the NCCS platform homepage using **Spring Boot, ReactJS, MySQL, and Thymeleaf**, raising load speed by **35%** and enhancing accessibility for internal government users.
 - Implemented **modular RESTful APIs** and caching strategies to improve backend efficiency and system reliability.
 - Collaborated with a **12-member cross-functional team** to translate complex user requirements into production-grade features with near-zero post-deployment bugs, using **Git for branch management, version control, and peer code reviews** to ensure seamless integration and delivery.
 - Contributed to hardware automation in the POTP project by validating **ROADM5 configurations** and debugging **30+ processor cards (82xx, 85xx, T1022)**, elevating system uptime and trimming setup time by **25%**.
- Infosys Technologies Private Limited - Bengaluru, Digital Specialist Engineer

Jul 2022 - Dec 2022

 - Designed and deployed a **scalable e-commerce web platform** using the **MERN stack**, serving **10,000+ daily users** for a major client.
 - Enhanced system performance by redesigning the ReactJS frontend and optimizing Node.js and MongoDB pipelines, achieving a **25% faster server response** and smoother navigation.
 - Coordinated with backend and DevOps teams to ensure **reliable API integrations**, version control via Git, and CI/CD automation for faster releases.

SKILLS

Languages Core Java, Java 8, JavaScript, Python	Frameworks & Libraries Spring Boot, ReactJS, LangChain	Databases MySQL, MongoDB
Tools & Systems Git, Jenkins, Postman, Cypress, REST APIs	Operating System Linux, Windows, macOS	CS Foundations System Design, Data Structures, Algorithms

PROJECTS

- NeuroPredict, Parkinson's Disease Detector

Tech Stack: Python, CatBoost, XGBoost, Scikit-Learn, NumPy, Pandas, Matplotlib

 - Independently architected a machine learning model to detect Parkinson's disease from vocal biomarkers using **22+ extracted acoustic features** (jitter, shimmer, NHR).
 - Achieved **96.6% accuracy** and **91.4% MCC**, outperforming baseline models; optimized via **SMOTE balancing** and **GridSearchCV** for precision >94%.
 - Built a **fully automated ML pipeline** with cross-validation and result visualization for reproducible outcomes, and **packaged the project via a virtual environment for local deployment and quality assurance**.
- YieldXplain, Crop Yield Prediction using XAI

Tech Stack: Python, Random Forest, SHAP, Scikit-Learn, Matplotlib, Pandas

 - Formulated a **98.96% accurate** model for predicting crop yield using multi-state agricultural datasets enriched with crop, area, and seasonal variables.
 - Integrated **SHAP-based explainability** (force and waterfall plots) to interpret model predictions and enhance transparency for agricultural stakeholders.
 - Rolled Out the model on a **local server environment** for result interpretation and end-user interaction, streamlining insight delivery for data-driven decision-making.

CERTIFICATIONS

- Amazon ML Summer School 2025

 - Completed intensive training on **Machine Learning** foundations, **deep learning**, and **production-grade ML**.
 - Gained hands-on exposure to **supervised/unsupervised learning**, model evaluation, **optimization**, and **large-scale ML applications** at Amazon.

EDUCATION

- M.Tech. - Computer Science and Engineering

National Institute of Technology, Warangal

Aug 2024 - Present

CGPA: 8.90
- B.Tech. - Computer Science and Engineering

Maharaja Agrasen Institute of Technology, New Delhi

Aug 2018 - Jul 2022

CGPA: 9.06